Updates in BCMA-directed therapies in multiple myeloma from ASH 2024



Prof. Katja Weisel University Medical Center Hamburg-Eppendorf, Germany Dr Nisha Joseph Emory University School of Medicine, Atlanta, GA, USA Prof. Roman Hájek University Hospital Ostrava, Czech Republic

Recorded following the **66th ASH Annual Meeting and Exposition** (7–10 December 2024, San Diego, CA, USA)



Disclaimer

- Unapproved products or unapproved uses of approved products may be discussed by the faculty; these situations may reflect the approval status in one or more jurisdictions
- The presenting faculty have been advised by EBAC[®] and touchIME to ensure that they disclose any such references made to unlabelled or unapproved use
- No endorsement by EBAC[®] and touchIME of any unapproved products or unapproved uses is either made or implied by mention of these products or uses in EBAC[®] and touchIME activities
- EBAC[®] and touchIME accept no responsibility for errors or omissions



Approved indications for BCMA-targeting agents

Prof. Katja Weisel University Medical Center Hamburg-Eppendorf, Germany



Recorded following the **66th ASH Annual Meeting and Exposition** (7–10 December 2024, San Diego, CA, USA)



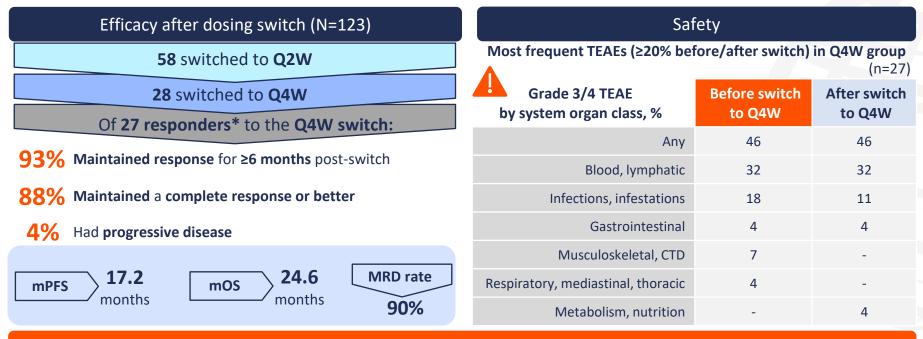
4738: MagnetisMM-3: Long-term update and efficacy and safety of less frequent dosing of elranatamab in patients with RRMM Miles Prince H, et al.

Baseline characteristic	S	Treatment schedule
Refractory to ≥ 1 PI, ≥ 1 IMiD, and ≥ 1 anti-CD38 antibody	BCMA-naive (N=123)	Subcutaneous elranatamab as step-up priming doses followed by 76 mg QW
Median age, years (range)	68 (36–89)	Patients with ≥6 cycles of
Median prior lines of therapy, n (range)	5 (2–22)	QW dosing achieving PR or better for ≥2 months were transitioned to:
Prior stem cell transplant, %	71	Ez montins were transitioned to.
Triple-class exposed/refractory, %	100/97	Q2W dosing
Penta-class exposed/refractory, %	71/42	
Extramedullary disease, %	32	Patients with ≥6 cycles of Q2W dosing were transitioned to:
R-ISS III, %	15	
High-risk cytogenetics, %	25	Q4W dosing
Refractory to last line of therapy, %	96	

BCMA, B-cell maturation antigen; IMiD, immunomodulatory drug; PI, proteasome inhibitor; PR, partial response; QW, once weekly; Q2W, every 2 weeks; Q4W, every 4 weeks; R-ISS, Revised International Staging System; RRMM, relapsed/refractory multiple myeloma. Miles Prince H, et al. Presented at ASH 2024, San Diego, CA, USA, 7–10 December 2024. Abstr. 4738.



4738: MagnetisMM-3: Long-term update and efficacy and safety of less frequent dosing of elranatamab in patients with RRMM Miles Prince H, et al.



Reducing elranatamab dosing frequency to Q4W may improve safety without compromising efficacy.

*Responders per blinded independent central review who switched to Q4W dosing ≥6 months before the data cutoff. CTD, connective tissue disorders; m, median; MRD, minimal residual disease; OS, overall survival; PFS, progression-free survival; Q2W, every 2 weeks; Q4W, every 4 weeks; RRMM, relapsed/refractory multiple myeloma; TEAE, treatment-emergent adverse event. Miles Prince H, et al. Presented at ASH 2024, San Diego, CA, USA, 7–10 December 2024. Abstr. 4738.



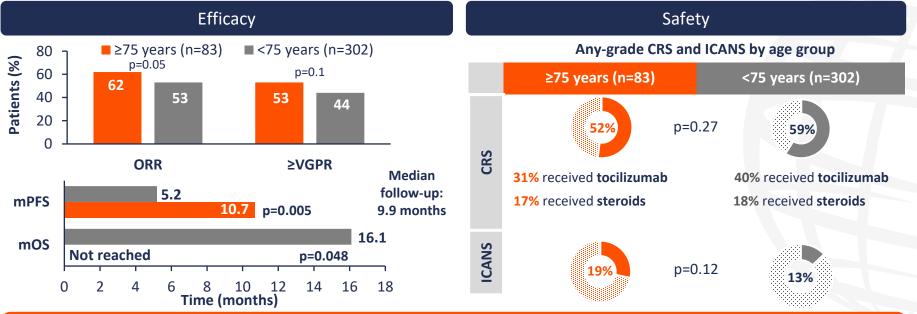
934: Outcomes of elderly patients with RRMM treated with teclistamab: A multicenter study from the US Multiple Myeloma Immunotherapy Consortium Paslovsky O, et al.

Baseline characteristics by age group				
• RRMM, receiving SOC teclistamab	≥75 years (n=83)	<75 years (n=302)	P value	
Median prior lines of therapy, n	6	6		
ECOG PS ≥2, %	29	24	0.37	
Triple-class refractory, %	77	85	0.06	
Penta-class refractory, %	30	39	0.15	
High-risk cytogenetic abnormalities, %	45	58	0.03	
Double-hit myeloma, %	12	24	0.02	
Extramedullary disease at baseline, %	22	40	0.002	
Prior ASCT, %	43	72	<0.0001	
Prior BCMA-directed therapy, %	33	55	0.0003	

ASCT, autologous stem cell transplant; BCMA, B-cell maturation antigen; ECOG PS, Eastern Cooperative Oncology Group performance status; RRMM, relapsed/refractory multiple myeloma; SOC, standard of care. Paslovsky O, et al. Presented at ASH 2024, San Diego, CA, USA, 7–10 December 2024. Abstr. 934.



934: Outcomes of elderly patients with RRMM treated with teclistamab: A multicenter study from the US Multiple Myeloma Immunotherapy Consortium Paslovsky O, et al.



Teclistamab in the real-world setting demonstrates comparable efficacy and safety in patients aged ≥75 years to that in MajesTEC-1 overall. Multivariate analysis showed aged ≥75 years had no significant impact on survival outcomes. Authors concluded age should not preclude the use of teclistamab.

CRS, cytokine release syndrome; ICANS, immune effector cell-associated neurotoxicity syndrome; m, median; ORR, overall response rate; OS, overall survival; PFS, progression-free survival; VGPR, very good partial response. Paslovsky O, et al. Presented at ASH 2024, San Diego, CA, USA, 7–10 December 2024. Abstr. 934.



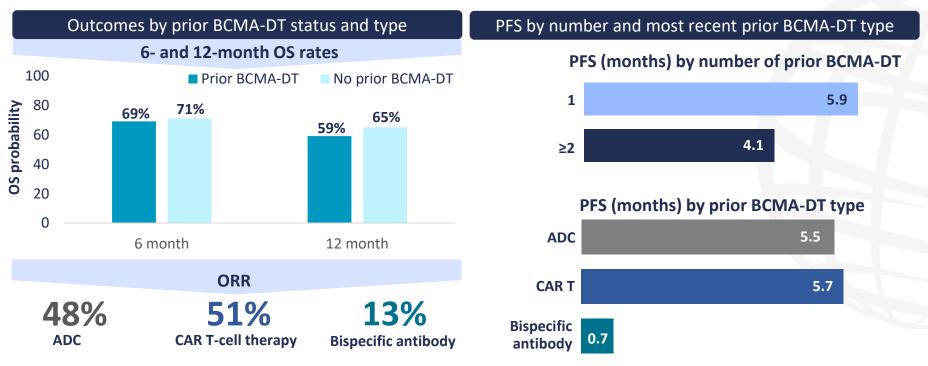
897: Outcomes of teclistamab in patients with RRMM with prior exposure to BCMA-DT: A multicenter study from the US Multiple Myeloma Immunotherapy Consortium Dima D, et al.

Baseline characteristics in the prior BCMA-DT group		Response rates by prior BCMA-	DT status
RRMM, prior BCMA-DT, on SOC teclistamab across 14 US centers	n=193	Nedian tollow-up: 9.9 months	CMA-DT (n=193) r BCMA-DT (n=192)
No. of prior BCMA-DTs, %			DCIMA-DT (II-132)
1 2 3	77 22 1	ORR	49% p=0.012
ECOG PS ≥2, %	24		62%
High-risk cytogenetics (any), %	61		
Extramedullary disease, %	22	≥VGPR 39% p	=0.009
Penta-refractory, %	42		53%
ORR to most recent prior BCMA-DT, % Overall (n=193) ADC (n=56) CAR T-cell therapy (n=129) Bispecific antibody (n=8)	69 48 78 75	≥CR 22% p=0.78	

ADC, antibody–drug conjugate; BCMA-DT, B-cell maturation antigen-directed therapy; CAR, chimeric antigen receptor; CR, complete response; ECOG PS, Eastern Cooperative Oncology Group performance status; ORR, overall response rate; RRMM, relapsed/refractory multiple myeloma; SOC, standard of care; VGPR, very good partial response. Dima D, et al. Presented at ASH 2024, San Diego, CA, USA, 7–10 December 2024. Abstr. 897.



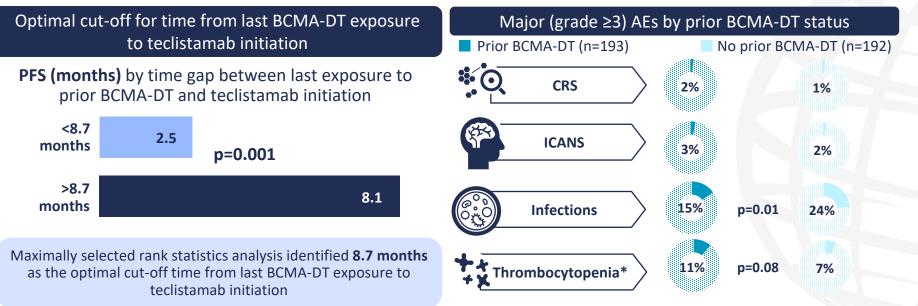
897: Outcomes of teclistamab in patients with RRMM with prior exposure to BCMA-DT: A multicenter study from the US Multiple Myeloma Immunotherapy Consortium Dima D, et al.



ADC, antibody–drug conjugate; BCMA-DT, B-cell maturation antigen-directed therapy; CAR, chimeric antigen receptor; ORR, overall response rate; OS, overall survival; PFS, progression-free survival; RRMM, relapsed/refractory multiple myeloma. Dima D, et al. Presented at ASH 2024, San Diego, CA, USA, 7–10 December 2024. Abstr. 897.



897: Outcomes of teclistamab in patients with RRMM with prior exposure to BCMA-DT: A multicenter study from the US Multiple Myeloma Immunotherapy Consortium Dima D, et al.



Receipt of BCMA-DT prior to teclistamab showed a trend towards worse PFS and lower likelihood of obtaining overall response. Waiting >9 months between sequencing BCMA therapies may be associated with improved PFS.

*At Day 30. AE, adverse event; BCMA, B-cell maturation antigen; BCMA-DT, BCMA-directed therapy; CRS, cytokine release syndrome; ICANS, immune effector cell-associated neurotoxicity syndrome; PFS, progression-free survival; RRMM, relapsed/refractory multiple myeloma. Dima D, et al. Presented at ASH 2024, San Diego, CA, USA, 7–10 December 2024. Abstr. 897.



936: Comparative safety and efficacy of ciltacabtagene autoleucel (cilta-cel) and idecabtagene vicleucel (ide-cel) CAR T-cell therapies in RRMM Hansen DK, et al.

Baseline characteristics were well balanced after inverse probability of treatment weighting

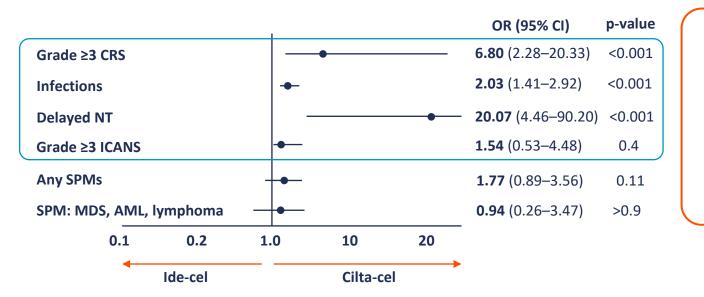
RRMM, infused with ide-cel or cilta-cel	lde-cel (n=350)	Cilta-cel (n=236)	P-value
Age, years	65	64	0.2
Median follow up, months	13.0	12.6	
Extramedullary disease, %	24	26	0.7
High-risk cytogenetics, %	33	38	0.2
Prior BCMA therapy, %	18	14	0.2
Penta-class refractory, %	35	30	0.15
Fludarabine/cyclophosphamide lymphodepletion, %	91	81	<0.001
No bridging therapy, %	28	24	
≥PR to bridging therapy, %	10	21	
SD/PD response to bridging therapy, %	62	55	storco™

BCMA, B-cell maturation antigen; CAR, chimeric antigen receptor; PD, progressive disease; PR, partial response; RRMM, relapsed/refractory multiple myeloma; SD, stable disease. Hansen DK, et al. Presented at ASH 2024, San Diego, CA, USA, 7–10 December 2024. Abstr. 936.



936: Comparative safety and efficacy of ciltacabtagene autoleucel (cilta-cel) and idecabtagene vicleucel (ide-cel) CAR T-cell therapies in RRMM Hansen DK, et al.

Incidence of key toxicities with cilta-cel compared with ide-cel therapy



Non-relapse mortality

Higher in cilta-cel-treated patients but this was not statistically significant

> **HR 1.24** (95% CI 0.67–2.30) p=0.49

AML, acute myeloid leukaemia; CAR, chimeric antigen receptor; CI, confidence interval; cilta-cel, ciltacabtagene autoleucel; CRS, cytokine release syndrome; HR, hazard ratio; ICANS, immune effector cell-associated neurotoxicity syndrome; ide-cel, idecabtagene vicleucel; MDS, myelodysplastic syndromes ;NT, neurotoxicity; OR, odds ratio; RRMM, relapsed/refractory multiple myeloma; SPM, second primary malignancy. Hansen DK, et al. Presented at ASH 2024, San Diego, CA, USA, 7–10 December 2024. Abstr. 936.



936: Comparative safety and efficacy of ciltacabtagene autoleucel (cilta-cel) and idecabtagene vicleucel (ide-cel) CAR T-cell therapies in RRMM Hansen DK, et al.

Treatment responses and survival outcomes with cilta-cel compared with ide-cel therapy

	OR (95% CI)	P value			HR (95% CI)	P value		HR (95% CI)	P value
Best CR or better	2.42 (1.63–3.60)	<0.001	E I	PFS	0.43 (0.34–0.55)	<0.001	PFS	0.48 (0.36–0.63)	<0.001
Best ORR (≥PR)	1.60 (0.90–2.83)	0.11	E	OS	0.53 (0.40–0.73)	<0.001	pesnjul OS	0.67 (0.46–0.97)	0.03

Comparing cilta-cel vs ide-cel in SOC setting for RRMM showed:

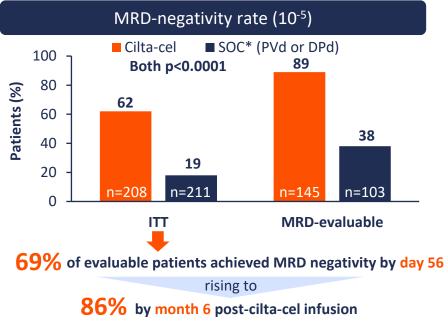
- Higher efficacy (responses and survival)
- Higher toxicities: severe CRS, delayed NT, infections, trend for SPMs
- No difference in other toxicities and non-relapse mortality

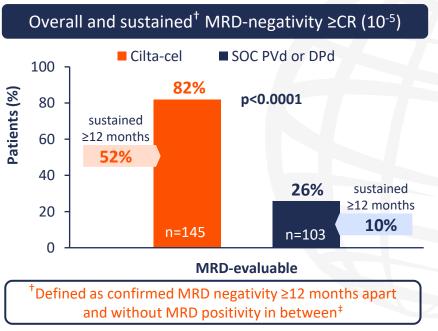
- Results remained consistent in sensitivity analyses
- Limitations include a retrospective study design and inherent biases in real-world data

CAR, chimeric antigen receptor; CI, confidence interval; CR, complete response; CRS, cytokine release syndrome; HR, hazard ratio; ITT, intention-to-treat; NT, neurotoxicities; OR, odds ratio; ORR, objective response rate; OS, overall survival; PFS, progression-free survival; PR, partial response; RRMM, relapsed/refractory multiple myeloma; SOC, standard-of-care; SPM, second primary malignancies. Hansen DK, et al. Presented at ASH 2024, San Diego, CA, USA, 7–10 December 2024. Abstr. 936.



1032: Ciltacabtagene autoleucel vs SOC in patients with lenalidomide-refractory MM after 1–3 lines of therapy: MRD negativity in the phase III CARTITUDE-4 trial Popat R, et al.





[‡]Patients were evaluable for sustained MRD negativity if they achieved MRD negativity and had ≥ 1 evaluable MRD sample ≥ 12 months after the first negative result or progressed/died/started subsequent treatment <12 months after the first negative result.

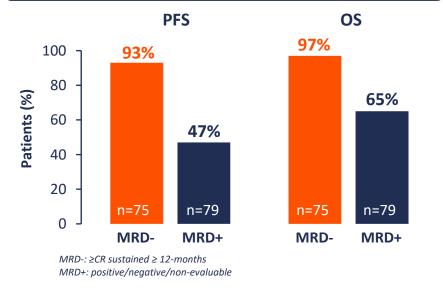
Cilta-cel, ciltacabtagene autoleucel; CR, complete response; d, dexamethasone; D, daratumumab; ITT, intent-to-treat; MM, multiple myeloma; MRD, minimal residual disease; P, pomalidomide; SOC, standard of care; V, bortezomib.

Popat R, et al. Presented at ASH 2024, San Diego, CA, USA, 7–10 December 2024. Abstr. 1032.



1032: Ciltacabtagene autoleucel vs SOC in patients with lenalidomide-refractory MM after 1–3 lines of therapy: MRD negativity in the phase III CARTITUDE-4 trial Popat R, et al.

30-month survival rates in patients with sustained MRD-negative (10⁻⁵) ≥CR post-cilta-cel



30-month survival rates in patients who received cilta-cel as study treatment in CARTITUDE-1 and -4

	CARTITUDE-1 (n=97)	CARTITUDE-4 (n=176)
30-month PFS rate, %	54	68
30-month OS rate, %	68	84

Patients treated with cilta-cel achieved rapid and deep MRD-negativity; sustained MRD-negative ≥CR corresponded to high rates of PFS and OS, supporting its prognostic value in patients treated with CAR T-cell therapy.

CAR, chimeric antigen receptor; cilta-cel, ciltacabtagene autoleucel; CR, complete response; MM, multiple myeloma; MRD, minimal residual disease; OS, overall survival; PFS, progression-free survival; SOC, standard of care. Popat R, et al. Presented at ASH 2024, San Diego, CA, USA, 7–10 December 2024. Abstr. 1032.



touchCONGRESS Data Review

New approaches to the use of existing BCMA-targeting agents

Prof. Katja Weisel University Medical Center Hamburg-Eppendorf, Germany

Recorded following the **66th ASH Annual Meeting and Exposition** (7–10 December 2024, San Diego, CA, USA)



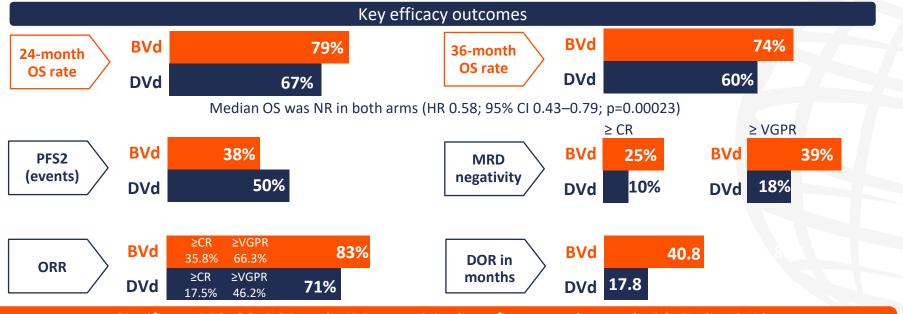
772: BVd vs DVd in RRMM: Overall survival analysis and updated efficacy outcomes of the phase III DREAMM-7 trial Hungria V, et al.

Baseline characteristics				
 Anti-BCMA-naïve adults with MM ≥1 prior line of therapy PD on/after latest therapy Not refractory/intolerant to bortezomib or daratumumab 	Randomiz BVd ITT n=243 (treated, n=242)	ed (N=494) DVd ITT n=251 (treated, n=246)		
Age, years (range)	65 (34–86)	64 (32–89)		
1 prior line of therapy, %	51	50		
High-risk cytogenetic abnormality, %	28	27		
Prior bortezomib, %	86	84		
Prior lenalidomide, %	52	52		
Lenalidomide refractory, %	33	35		
Prior daratumumab, %	1	2		
39.4 months median follow-up (0.1–52.3) treatment	25%	15%		

B, belantamab mafodotin; BCMA, B-cell maturation antigen; D, daratumumab; d, dexamethasone; ITT, intent-to-treat; PD, progressive disease; RRMM, relapsed/refractory multiple myeloma; V, bortezomib. Hungria V, et al. Presented at ASH 2024, San Diego, CA, USA, 7–10 December 2024. Abstr. 772.



772: BVd vs DVd in RRMM: Overall survival analysis and updated efficacy outcomes of the phase III DREAMM-7 trial Hungria V, et al.



Significant PFS, OS, DOR and MRD-negativity benefits were observed with BVd vs DVd, suggesting that BVd could become a new standard-of-care treatment option for patients with RRMM.

B, belantamab mafodotin; CI, confidence interval; CR, complete response; D, daratumumab; d, dexamethasone; DOR, duration of response; HR, hazard ratio; MRD, minimal residual disease; NR, not reached; ORR, overall response rate; OS, overall survival; PFS2, progression-free survival on second line of therapy; RRMM, relapsed/refractory multiple myeloma; V, bortezomib; VGPR, very good partial response. Hungria V, et al. Presented at ASH 2024, San Diego, CA, USA, 7–10 December 2024. Abstr. 772.



772: BVd vs DVd in RRMM: Overall survival analysis and updated efficacy outcomes of the phase III DREAMM-7 trial

Hungria V, et al.

Safety summary, n (%)	BVd (N=242)	DVd (N=246)
Any AE	242 (100)	246 (100)
Grade 3/4 AE	230 (95)	191 (78)
AEs leading to permanent discontinuation of study drug	77 (32)	47 (19)
Any SAE	129 (53)	94 (38)
Fatal SAE	26 (11)	20 (8)
Deaths Cancer CV condition Sepsis Stroke Trauma Other non-CV condition	69 (29) 23 (10) 8 (3) 8 (3) 0 0 24 (10)	101 (41) 53 (22) 4 (2) 4 (2) 1 (<1) 1 (<1) 25 (10)

Key safety outcomes

Non-ocular AEs of clinical interest included:



Blood and lymphatic system disorders Thrombocytopenia, anaemia and neutropenia



(0)

Infections and infestations Pneumonia

BCVA outcomes

- Changes at follow-up in patients with bilateral worsening of BCVA from normal or >20/25 baseline:
 - 93% had first event resolved to ≤20/50
 - 80% had first event resolved to ≤20/200
- 96% had first event improved to ≤20/50
- 100% had first event improved to ≤20/200

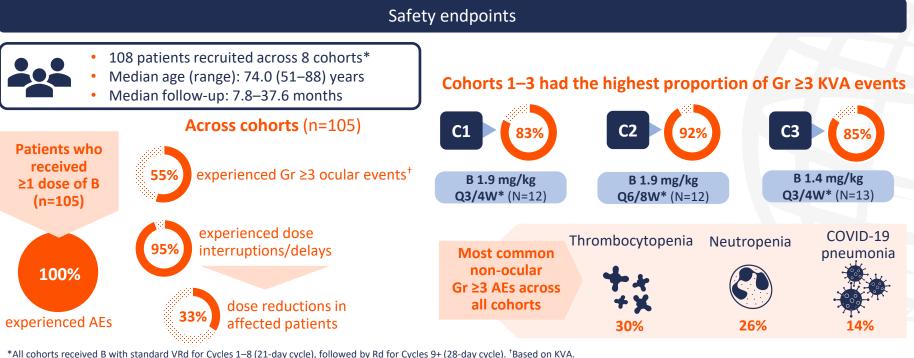
Blurred vision was the most common AE in BVd arm with 68% (any grade) and 24% (3/4 grade) experiencing it

Safety and tolerability of BVd was consistent with the primary analysis.

AE, adverse event; B, belantamab mafodotin; BCVA, bestcorrected visual acuity; CV, cardiovascular; D, daratumumab; d, dexamethasone; SAE, serious adverse event; V, bortezomib. Hungria V, et al. Presented at ASH 2024, San Diego, CA, USA, 7–10 December 2024. Abstr. 772.

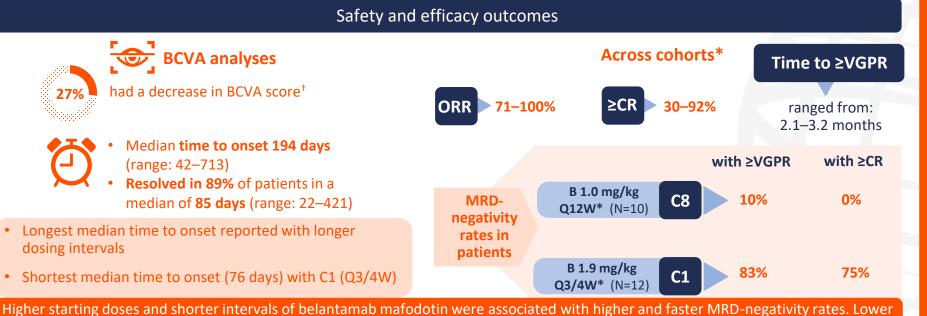


497: Phase I study of belantamab mafodotin in combination with standard of care in transplant-ineligible newly diagnosed MM: DREAMM-9 updated interim analysis Usmani SZ, et al.



All conorts received B with standard VRd for Cycles 1–8 (21-day cycle), followed by Rd for Cycles 9+ (28-day cycle). 'Based on KVA. AE, adverse event; B, belantamab mafodotin; C, cohort; d, dexamethasone; Gr, grade; KVA, keratopathy and visual acuity scale; MM, multiple myeloma; Q3/4W, every 3/4 weeks; Q6/8W, every 6/8 weeks; R, lenalidomide; V, bortezomib. Usmani SZ, et al. Presented at ASH 2024, San Diego, CA, USA, 7–10 December 2024. Abstr. 497.

497: Phase I study of belantamab mafodotin in combination with standard of care in transplant-ineligible newly diagnosed MM: DREAMM-9 updated interim analysis Usmani SZ, et al.

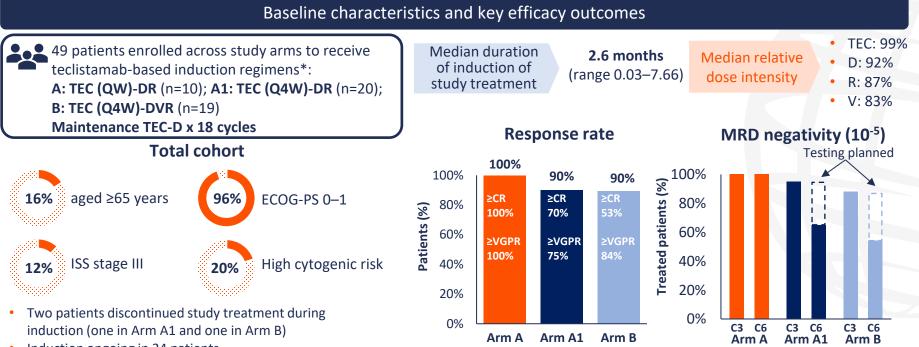


Higher starting doses and shorter intervals of belantamab mafodotin were associated with higher and faster MRD-negativity rates. Lower and longer dosing intervals were associated with fewer ocular events and increased time to onset of clinically meaningful BCVA changes.

*All cohorts received B with standard VRd for Cycles 1–8 (21-day cycle), followed by Rd for Cycles 9+ (28-day cycle). ⁺ From baseline (20/25 or better) to 20/50 or worse. B, belantamab mafodotin; BCVA, best-corrected visual acuity; C, cohort; CR, complete response; d, dexamethasone; MM, multiple myeloma; MRD, minimal residual disease; ORR, overall response rate; Q3/4W, every 3/4 weeks; Q12W, every 12 weeks; R, lenalidomide; V, bortezomib; VGPR, very good partial response. Usmani SZ, et al. Presented at ASH 2024, San Diego, CA, USA, 7–10 December 2024. Abstr. 497.



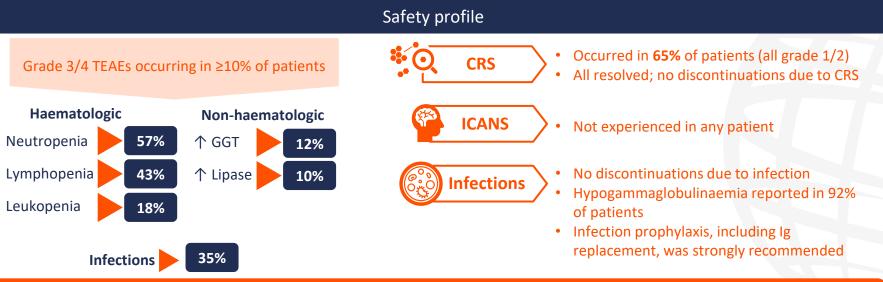
493: Phase II study of teclistamab-based induction regimens in patients with TE NDMM: Results from the GMMG-HD10/DSMM-XX (MajesTEC-5) trial Raab MS, et al.



Induction ongoing in 24 patients

*Each cycle was 28 days; dexamethasone also administered in cycles 1 and 2. C, cycle; CR, complete response; D, daratumumab; ECOG-PS, Eastern Cooperative Oncology Group Performance Status; ISS, International Staging System; MRD, minimal residual disease; NDMM, newly diagnosed multiple myeloma; QW, weekly; Q4W, every 4 weeks; R, lenalidomide; TE, transplant eligible; TEC, teclistamab; V, bortezomib; VGPR, very good partial response. Raab MS, et al. Presented at ASH 2024, San Diego, CA, USA, 7–10 December 2024. Abstr. 493.

493: Phase II study of teclistamab-based induction regimens in patients with TE NDMM: Results from the GMMG-HD10/DSMM-XX (MajesTEC-5) trial Raab MS, et al.

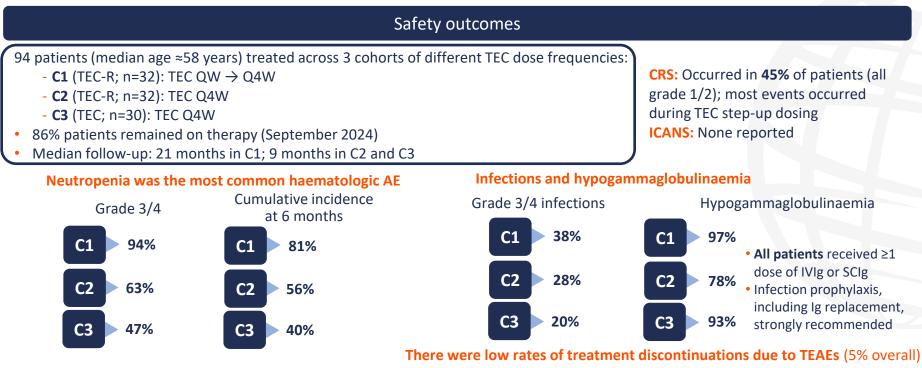


TEC combined with DR and DVR as induction therapy was feasible with very high early clinical efficacy. Among patients with MRD assessment at data cut-off, all achieved MRD-negativity (10⁻⁵) by the first MRD assessment. Stem cell mobilization was feasible with both regimens.

D, daratumumab; CRS, cytokine release syndrome; GGT, gamma-glutamyltransferase; ICANS, immune effector cell-associated neurotoxicity; Ig, immunoglobulin; MRD, minimal residual disease; NDMM, newly diagnosed multiple myeloma; R, lenalidomide; TE, transplant eligible; TEAE, treatment-emergent adverse event; TEC, teclistamab; V, bortezomib. Raab MS, et al. Presented at ASH 2024, San Diego, CA, USA, 7–10 December 2024. Abstr. 493.

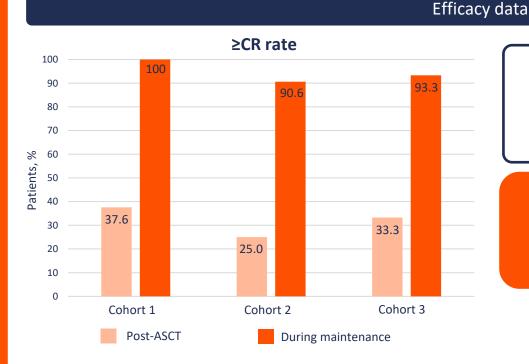


494: Phase III study of TEC-R vs TEC alone in NDMM as maintenance therapy following ASCT: Safety run-in results from the MajesTEC-4/EMN30 trial Zamagni E, et al.



ONCOLOGY

AE, adverse event; ASCT, autologous stem cell transplant; C, cohort; CRS, cytokine release syndrome; Cy, cycle; ICANS, immune effector cell-associated neurotoxicity; Ig, immunoglobulin; IV, intravenous; NDMM, newly diagnosed multiple myeloma; R, lenalidomide; SC, subcutaneous; TEAE, treatment-emergent AE; TEC, teclistamab. Zamagni E, et al. Presented at ASH 2024, San Diego, CA, USA, 7–10 December 2024. Abstr. 494. 494: Phase III study of TEC-R vs TEC alone in NDMM as maintenance therapy following ASCT: Safety run-in results from the MajesTEC-4/EMN30 trial Zamagni E, et al.



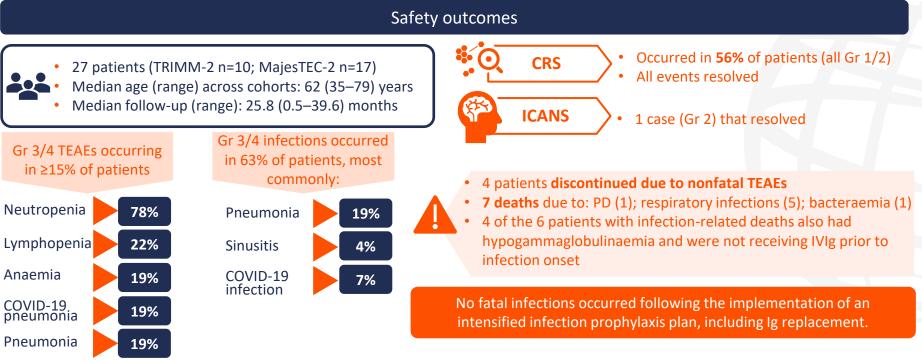
100% of evaluable patients were MRD negative during maintenance across all three cohorts

TEC-R and TEC may be safely administered as maintenance therapy following ASCT in NDMM. These data informed the randomized part of MajesTEC-4/EMN30, which is actively enrolling.

ASCT, autologous stem cell transplant; CR, complete response; MRD, minimal residual disease; NDMM, newly diagnosed multiple myeloma; R, lenalidomide; TEC, teclistamab. Zamagni E, et al. Presented at ASH 2024, San Diego, CA, USA, 7–10 December 2024. Abstr. 494.



495: TEC-DP in patients with RRMM: Results from the MajesTEC-2 Cohort A and TRIMM-2 studies D'Souza A, et al.

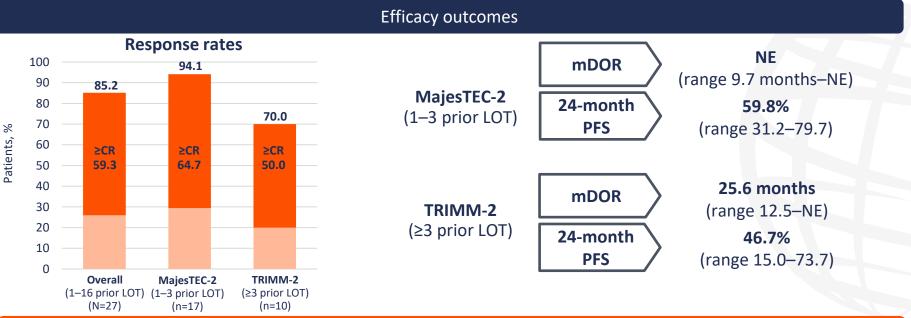


CRS, cytokine release syndrome; D, daratumumab; Gr, grade; ICANS, immune effector cell-associated neurotoxicity; Ig, immunoglobulin; IV, intravenous; P, pomalidomide; PD, progressive disease; RRMM, relapsed/refractory multiple myeloma; TEAE, treatment-emergent adverse event; TEC, teclistamab. D'Souza A, et al. Presented at ASH 2024, San Diego, CA, USA, 7–10 December 2024. Abstr. 495.



495: TEC-DP in Patients with RRMM: Results from the MajesTEC-2 Cohort A and TRIMM-2 Studies

D'Souza A, et al.



TEC-DP is feasible and shows promising efficacy, with a high rate of deep responses, in patients with RRMM, including D-exposed patients. Intensified recommendations may have improved the infection profile.

CR, complete response; D, daratumumab; LOT, line of therapy; mDOR, median duration of response; NE, not estimable; P, pomalidomide; PFS, progression-free survival; RRMM, relapsed/refractory multiple myeloma; TEC, teclistamab. D'Souza A, et al. Presented at ASH 2024, San Diego, CA, USA, 7–10 December 2024. Abstr. 495.



Emerging BCMA-targeting agents

Prof. Katja Weisel University Medical Center Hamburg-Eppendorf, Germany



Recorded following the **66th ASH Annual Meeting and Exposition** (7–10 December 2024, San Diego, CA, USA)



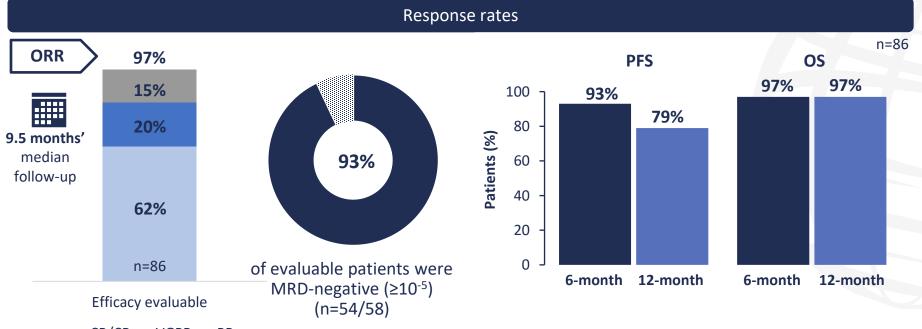
1031: Phase II registrational study of anitocabtagene autoleucel (anito-cel) for the treatment of patients with RRMM: Preliminary results from the iMMagine-1 trial Freeman CL, et al.

Baseline characteristics				
 Triple-class–exposed (prior PI, IMiD, anti-CD38) Received ≥3 LOT and refractory to last line Evidence of measurable disease 	Safety evaluable (n=98)	Efficacy evaluable (n=86)		
Age, years (range)	65 (38–78)	65 (38–78)		
Extramedullary disease, %	16	15		
High-risk cytogenetics, %	40	38		
Refractory to last line of therapy, %	100	100		
Penta-refractory, %	42	43		
Median no. prior lines of therapy, n (range)	4 (3–8)	4 (3–8)		
Prior ASCT, %	75	74		
Bridging therapy, %	66	71		

ASCT, autologous stem cell transplant; CD, cluster of differentiation; IMiD, immunomodulatory drug; LOT, line of therapy; PI, proteasome inhibitor; RRMM, relapsed/refractory multiple myeloma. Freeman CL, et al. Presented at ASH 2024, San Diego, CA, USA, 7–10 December 2024. Abstr. 1031.



1031: Phase II registrational study of anitocabtagene autoleucel (anito-cel) for the treatment of patients with RRMM: Preliminary results from the iMMagine-1 trial Freeman CL, et al.

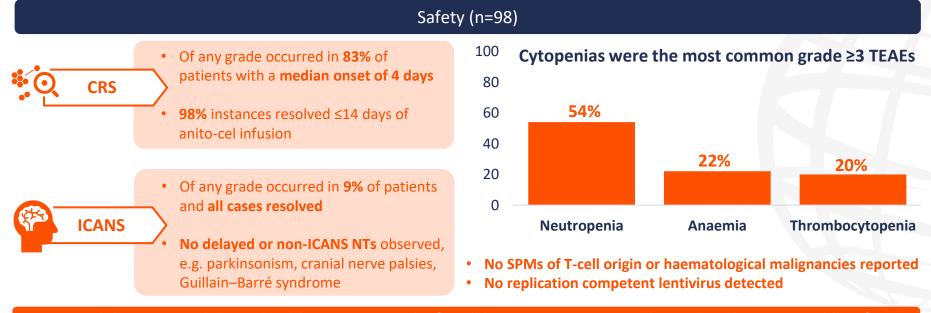


■ sCR/CR ■ VGPR ■ PR

CR, complete response; MRD, minimal residual disease; ORR, overall response rate; OS, overall survival; PFS, progression-free survival; PR, partial response; RRMM, relapsed/refractory multiple myeloma; sCR, stringent CR; VGPR, very good PR. Freeman CL, et al. Presented at ASH 2024, San Diego, CA, USA, 7–10 December 2024. Abstr. 1031.



1031: Phase II registrational study of anitocabtagene autoleucel (anito-cel) for the treatment of patients with RRMM: Preliminary results from the iMMagine-1 trial Freeman CL, et al.



Anito-cel demonstrated deep, durable responses in the fourth line RRMM setting and beyond, with a manageable safety profile, including no delayed or non-ICANS NTs.

CRS, cytokine release syndrome; ICANS, immune effector cell-associated neurotoxicity syndrome; NT, neurotoxicity; RRMM, relapsed/refractory multiple myeloma; SPM, secondary primary malignancies; TEAE, treatment-emergent adverse event. Freeman CL, et al. Presented at ASH 2024, San Diego, CA, USA, 7–10 December 2024. Abstr. 1031.



496: ABBV-383 plus daratumumab-dexamethasone in RRMM: A phase Ib dose-escalation and safety expansion study Rodriguez C, et al.

Baseline characteristics (as of 12 September 2024)					
• Adults with RRMM with ≥3 prior LOT	Daratumumab plus dexamethasone in combination with ABBV-383 dosed at:				
Prior PI, IMiD, anti-CD38 permitted	20 mg (n=37)	40 mg (n=35)	60 mg (n=14)	Total (N=86)	
Median age, years (range)	67 (46–89)	72 (39–87)	68 (47–84)	69 (39–89)	
R-ISS III, %	24	24	21	24	
High-risk cytogenetics, %	36	44	42	40	
Median prior lines of therapy, n (range)	4 (3–10)	4 (3–9)	4 (3–7)	4 (3–10)	
Prior anti-CD38 mAb exposure, %	68	77	57	70	
Anti CD-38 mAb refractory, %	46	66	57	56	
Triple-class exposed, %	68	77	57	70	
Triple-class refractory, %	46	46	43	45	

CD, cluster of differentiation; IMiD, immunomodulatory drug; LOT, line of therapy; mAb, monoclonal antibody; PI, proteasome inhibitor; R-ISS, Revised International Staging System; RRMM, relapsed/refractory multiple myeloma. Rodriguez C, et al. Presented at ASH 2024, San Diego, CA, USA, 7–10 December 2024. Abstr. 496.



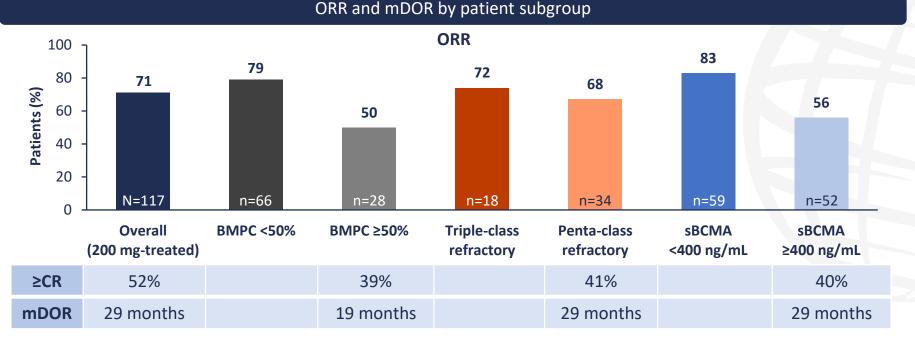
496: ABBV-383 plus daratumumab-dexamethasone in RRMM: A phase Ib dose-escalation and safety expansion study Rodriguez C, et al.

Any-grade TEAEs, % AB	BBV-383 + Dd		
(> 2 5 0/) (5		CRS, 29%	n=80 evaluable for disease assessment
(>25%) (1 Haematologic Neutropenia Anaemia Thrombocytopenia Non-haematologic CRS Fatigue Infections	Total, N=86) 48 31 31 29 26 67	Grade 1–2 25%	71% 7 months' median follow-up83% 8 months' median follow-up56% 60 mg82% 60 mg
TEAE leading to ABBV-383/Dd: Interruption Discontinuation* Death	57/64 14/15 14	Incidence of CRS was o	4 months' median follow-up gest ABBV-383 in combination with Dd is tolerable. only 29% and early response rates were promising in eavily pretreated patients with MM.

*Most common cause was disease progression (22%). CRS, cytokine release syndrome; Dd, daratumumab and dexamethasone; MM, multiple myeloma; ORR, overall response rate; PR, partial response; RRMM, relapsed/refractory MM; TEAE, treatment-emergent adverse event; VGPR, very good partial response. Rodriguez C, et al. Presented at EHA2024, Madrid, Spain, 13–16 June 2024. Abstr. S211.



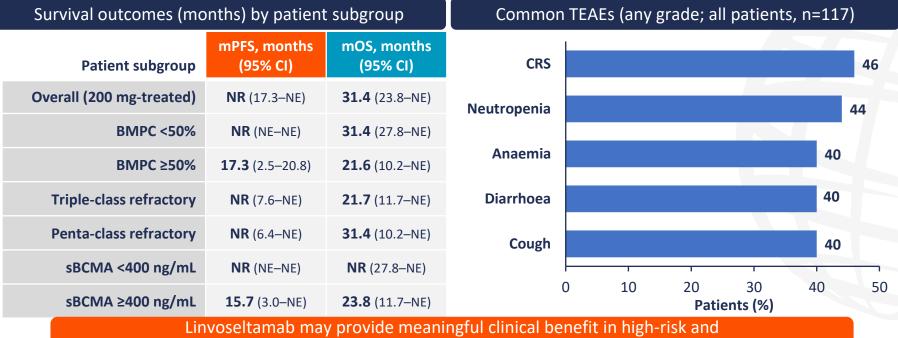
3369: Linvoseltamab in patients with RRMM: Longer follow-up and selected high-risk subgroup analyses of the LINKER-MM1 study Shah MR, et al.



BMPC, bone marrow plasma cell; CR, complete response; mDOR, median duration of response; ORR, overall response rate; RRMM, relapsed/refractory multiple myeloma; sBCMA, soluble B-cell maturation antigen. Shah MR, et al. Presented at ASH 2024, San Diego, CA, USA, 7–10 December 2024. Abstr. 3369.



3369: Linvoseltamab in patients with RRMM: Longer follow-up and selected high-risk subgroup analyses of the LINKER-MM1 study Shah MR, et al.



other hard to treat patients with limited treatment options.

BMPC, bone marrow plasma cell; CI, confidence interval; CRS, cytokine release syndrome; m, median; NE, non-evaluable; NR, not reached; OS, overall survival; PFS, progression-free survival; RRMM, relapsed/refractory multiple myeloma; sBCMA, soluble B-cell maturation antigen; TEAE, treatment-emergent adverse event. Shah MR, et al. Presented at ASH 2024, San Diego, CA, USA, 7–10 December 2024. Abstr. 3369.

